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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/851,451	05/08/2001	Jong-Kwang Kim	678-0657	4167	
66547 THE FARREI	66547 7590 04/11/2008 THE FARRELL LAW FIRM, P.C.			EXAMINER	
333 EARLE OVINGTON BOULEVARD			FLANDERS, ANDREW C		
SUITE 701 UNIONDALE, NY 11553			ART UNIT	PAPER NUMBER	
			2615		
			MAIL DATE	DELIVERY MODE	
		•	04/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Aunticonta	
•	Application No.	Applicant(s)	
	09/851,451	KIM, JONG-KWANG	
Office Action Summary	Examiner	Art Unit	
	ANDREW C. FLANDERS	2615	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may be earned patent term adjustment. See 37 CFR 1.704(b).	S DATE OF THIS COMMUNICA R 1.136(a). In no event, however, may a reply riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	TION. y be timely filed S from the mailing date of this communication. IDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31	1 January 2008.		
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal matters	s, prosecution as to the merits is	
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims			
4) ☑ Claim(s) <u>1-6</u> is/are pending in the applicatio 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-6</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.		
Application Papers		•	
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the cort 11) The oath or declaration is objected to by the	accepted or b) objected to by the drawing(s) be held in abeyance rection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burn * See the attached detailed Office action for a line	ents have been received. ents have been received in Apportiority documents have been re reau (PCT Rule 17.2(a)).	elication No ceived in this National Stage	
Attachmont(c)			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		Mail Date mal Patent Application	

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 – 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tran (U.S. Patent 6,359,987) in view of Tan (U.S. Patent 6,449,371).

Regarding Claims 1 and 5, Tran discloses:

An audio output control apparatus in a mobile terminal having a player for reproducing audio data into an audio signal (Fig. 1, computers can be moved from location to location and thus are mobile; additionally laptop computers are well known and are also mobile), comprising:

an ear jack (Fig. 2 element 66; including sensing circuit 64).

Tran does not explicitly disclose that the ear jack is for transferring the audio signal output from the player to one of an earphone and an external speaker.

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Tran does disclose impedance detection circuitry coupled to detect whether the attached speakers are passively driven or actively driven. If they are passively driven, the amplification is increased and if they are powered, they amplification is decreased (see Fig. 4 and its description). Tran further discloses non-amplified speakers and amplified speakers (col. 7). Tran does not disclose earphones, however, Examiner takes official notice that passively driven earphones are notoriously well known in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to attach passively driven earphones to the computer system to enjoy sound without disturbing others.

The attachment of the actively driven speakers and passive earphones to the system of Tran further discloses:

an ear jack (fig. 2 element 66; including sensing circuit 64) for transferring the audio signal output from the player to one of an earphone (the passively driven earphones) and an external speaker (the actively driven speakers; col. 7), connected thereto, and generating one of a high and low level voltage indicating whether a connected audio output device is the earphone or the external speaker, respectively (i.e. sensing circuit 64 generates a signals which drives the SENSE signal, the output is equal to 1 if an active speaker is connected and 0 if a passive speaker is connected; col. 6 lines 55-65; these are also regarded as high and low indicating their voltages; see col. 7 as well as the voltage discussion of this signal in col. 6)

a controller (i.e. controller 44) for determining the audio output device connected to the ear jack depending on the high or low level voltage (reads the SENSE signal) and

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controlling an audio gain of the player according to the determined result (i.e. the gain is lowered for the amplified speakers and increased for the passively driven headphones depending on the SENSE signal).

Furthermore, Tran does not explicitly disclose that the computer player is an MP3 player.

Tan discloses a computer that is configured to reproduce an MP3 audio signal.

It would have been obvious to one of ordinary skill in the art to modify Tran's computer to playback MP3 audio files as taught by Tan. One would have been motivated to do so to enable Tran's computer to pay commonly available music files. The MP3 format is greatly compressed and thereby results in smaller files allowing music to be stored on the Tran system in much less space.

Regarding Claim 2, in addition to the elements stated above regarding claim 1, the combination further discloses:

wherein the ear jack has at least two nodes for sensing connection to either the earphone or the external speaker (col. 8 lines 7 - 9).

Regarding Claims 3 and 6, in addition to the elements stated above regarding claims 2 and 5, the combination further discloses:

wherein the controller increases the audio gain when the external speaker is connected to the ear jack, and the controller decreases the audio gain when the

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earphone is connected to the ear jack (i.e. the gain is lowered for the amplified speakers and increased for the passively driven headphones; Fig. 4 and col. 7).

Regarding **Claim 4**, in addition to the elements stated above regarding claim 2, the combination further discloses:

wherein the earphone includes a first ear jack connector connected to the ear jack for generating the first voltage, and the external speaker includes a second ear jack connector connected to the ear jack for generating the second voltage (the earphone and amplified speakers must have connectors to connect to the Tran system; these connectors are unique to each device and thus meet the first and second connectors, the amplified speakers generating one voltage, the non amplified headphones generating another on the SENSE line).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANDREW C. FLANDERS whose telephone number is (571)272-7516. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7546. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

acf

/Sinh N Tran/ Supervisory Patent Examiner, Art Unit 2615